

```

UUU      UUU  EEEEEEEEEEEEEEE  TTTTTTTTTT TTTT  PPPPPPPPPPP  SSSSSSSSSSS  YYY      YYY
UUU      UUU  EEEEEEEEEEEEEEE  TTTTTTTTTT TTTT  PPPPPPPPPPP  SSSSSSSSSSS  YYY      YYY
UUU      UUU  EEEEEEEEEEEEEEE  TTTTTTTTTT TTTT  PPPPPPPPPPP  SSSSSSSSSSS  YYY      YYY
UUU      UUU  EEE              TTT      PPP      PPP  SSS      YYY      YYY
UUU      UUU  EEE              TTT      PPP      PPP  SSS      YYY      YYY
UUU      UUU  EEE              TTT      PPP      PPP  SSS      YYY      YYY
UUU      UUU  EEE              TTT      PPP      PPP  SSS      YYY      YYY
UUU      UUU  EEE              TTT      PPP      PPP  SSS      YYY      YYY
UUU      UUU  EEE              TTT      PPP      PPP  SSS      YYY      YYY
UUU      UUU  EEE              TTT      PPP      PPP  SSS      YYY      YYY
UUU      UUU  EEE              TTT      PPP      PPP  SSS      YYY      YYY
UUU      UUU  EEEEEEEEEEEEEEE  TTT      PPPPPPPPPPP  SSSSSSSSS  YYY
UUU      UUU  EEEEEEEEEEEEEEE  TTT      PPPPPPPPPPP  SSSSSSSSS  YYY
UUU      UUU  EEEEEEEEEEEEEEE  TTT      PPPPPPPPPPP  SSSSSSSSS  YYY
UUU      UUU  EEE              TTT      PPP      SSS      YYY
UUU      UUU  EEE              TTT      PPP      SSS      YYY
UUU      UUU  EEE              TTT      PPP      SSS      YYY
UUU      UUU  EEE              TTT      PPP      SSS      YYY
UUU      UUU  EEE              TTT      PPP      SSS      YYY
UUU      UUU  EEE              TTT      PPP      SSS      YYY
UUUUUUUUUUUUUUUUUU  EEEEEEEEEEEEEEE  TTT      PPP      SSSSSSSSSSS  YYY
UUUUUUUUUUUUUUUUUU  EEEEEEEEEEEEEEE  TTT      PPP      SSSSSSSSSSS  YYY
UUUUUUUUUUUUUUUUUU  EEEEEEEEEEEEEEE  TTT      PPP      SSSSSSSSSSS  YYY

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[illegible]

SA
VO[illegible]

(1)	55	DECLARATIONS
(1)	106	CONDITION TABLES
(1)	145	TM SETUP, TM CLEANUP
(1)	236	CONDITION SUBROUTINES - SETUP AND CLEANUP
(1)	329	FORM_CONDS
(1)	422	VERIFY
(1)	534	VFY_CLEANUP

```
0000 1 .TITLE SATSSS40 SATS SYSTEM SERVICE TESTS $WAKE (SUCC S.C.)
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5 *****
0000 6 *
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0000 24 *
0000 25 *
0000 26 *****
0000 27
0000 28
0000 29 :++
0000 30 : FACILITY: SYSTST (SATS SYSTEM SERVICE TESTS)
0000 31
0000 32 : ABSTRACT:
0000 33
0000 34 : THIS MODULE CONTAINS SUBROUTINES WHICH, WHEN LINKED
0000 35 : WITH SUCCOMMON.OBJ, FORM TEST MODULE SATSSS40 TO TEST SUCCESSFUL
0000 36 : OPERATION OF THE $WAKE SYSTEM SERVICE. THE SERVICE IS INVOKED
0000 37 : UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY
0000 38 : SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE. CORRECT
0000 39 : OPERATION OF THE SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY
0000 40 : CHECKING FOR AN SSS NORMAL STATUS CODE, EXPECTED RETURN ARGUMENTS
0000 41 : AND EXPECTED FUNCTIONALITY PERFORMED.
0000 42
0000 43 : ENVIRONMENT: USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE,
0000 44 : DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.
0000 45
0000 46 : AUTHOR: THOMAS L. CAFARELLA, CREATION DATE: OCT, 1977
0000 47
0000 48 : MODIFIED BY:
0000 49
0000 50 : VERSION 1.5 : 25-MAY-79
0000 51 : 01 LDJ 10/11/79 Fixed bug caused by DIB$K_LENGTH change ACG052.RNO mem
0000 52
0000 53 :--
```

```

0000 55      .SBTTL DECLARATIONS
0000 56      :
0000 57      : INCLUDE FILES:
0000 58      :
0000 59      $PRVDEF      ; PRIVILEGE BIT DEFINITIONS
0000 60      $PHDDEF      ; PROCESS HEADER OFFSETS
0000 61      $PQLDEF      ; PROCESS QUOTA CODES
0000 62      $PCBDEF      ; PCB LABELS
0000 63      $DIBDEF      ; DEVICE INFO BLOCK OFFSETS
0000 64      :
0000 65      : MACROS:
0000 66      :
0000 67      :
0000 68      : EQUATED SYMBOLS:
0000 69      :
0000 70      :
0000 71      : OWN STORAGE:
0000 72      :

```

SATSSS40
V04-000

SATS SYSTEM SERVICE TESTS \$WAKE (SUCC S 16-SEP-1984 00:53:00 VAX/VMS Macro V04-00
DECLARATIONS 5-SEP-1984 04:31:09 [UETPSY.SRC]SATSSS40.MAR;1

Page 3
(1)

```
00000000 74 .PSECT RODATA, RD, NOWRT, NOEXE, LONG
0000 75 TEST_MOD_NAME:: STRING C, <SATSSS40> ; TEST MODULE NAME
0009 76 TEST_MOD_NAME_D: STRING I, <SATSSS40> ; TEST MODULE NAME DESCRIPTOR
0019 77 MSG1_INP_CTL: STRING I, <SSWAK!4ZW: CONDITIONS:>
0039 78 ; FAO CTL STRING FOR MSG1 IN SUCCOMMON.MAR
0039 79 MSG3_ERR_CTL:: STRING I, <*SSWAK!4ZW: !AS>
0051 80 ; FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR
0051 81 SUBJPRN: STRING I, <SATSSS40 CRE> ; PROCESS & MBX NAME FOR CREATED PROCESS
0065 82 IMAGNAM: STRING I, <SYSTST$RES:SATSUT06.EXE> ; IMAGE NAME FOR CREATED PROC
0084 83 QOTALIST: $QUOTA CPULM, 0 ; INFINITE CPU
0089 84 $QUOTA BYTLM, 512 ; BYTE LIMIT FOR BUFFERED I/O
008E 85 $QUOTA FILLM, 2 ; OPEN FILE COUNT LIMIT
0093 86 $QUOTA PGFLQUOTA, 10 ; PAGING FILE QUOTA
0098 87 $QUOTA PRCLM, 2 ; SUBPROCESS QUOTA
009D 88 $QUOTA TQELM, 3 ; TIMER QUEUE ENTRY QUOTA
00A2 89 $QUOTA LISTEND ; DEFINES END Ce LIST
```

00000000	0000	91	.PSECT	RWDATA, RD, WRT, NOEXE, LONG	
00000008	0000	92	PRIVMASK:	.BLKQ 1	: ADDR OF PRIVILEGE MASK (IN PHD)
0000000C	0008	93	MBXCHAN:	.BLKL 1	: CHAN. NO. FOR MAILBOX FOR CREATED PROCESS
	000C	94	MBXCHANINFO:		: CHANNEL INFO RETURNED BY GETCHN
00000074	000C	95		.LONG DIB\$K_LENGTH	
00000014	0010	96		.ADDRESS +4	
00000088	0014	97		.BLKB DIB\$K_LENGTH	
0000008C	0088	98	MBXUNIT:	.BLKL 1	: SAVE AREA FOR MAILBOX UNIT NUMBER
	008C	99	MBXBUFF:	STRING 0,120	: MAILBOX BUFFER FOR CREATED PROCESS
00000110	010C	100	DEST_PIDADR:	.BLKL 1	: DESTINATION PID ADDR, WRITTEN BY S.S.
00000114	0110	101	ZEROPID:	.BLKL 1	: PID OF ZEROES
00000000	0114	102	SELPID:	.LONG 0	: PID OF THIS PROCESS
0000011C	0118	103	CREPID:	.BLKL 1	: PID OF CREATED PROCESS
00000120	011C	104	SUBJPID:	.BLKL 1	: PID OF SUBJECT PROCESS (SELF OR OTHER)

```
.SBTTL  CONDITION TABLES
*****  CONDITION TABLES FOR WAKE SYSTEM SERVICE  *****
COND  1,NOTARG,<PID ADDRESS>,-
      <NOT SPECIFIED>,-
      <SPECIFIED, NON-ZERO>,-
      <SPECIFIED, ZERO>,-
      .ADDRESS      0
      .ADDRESS      SUBJPID
      .ADDRESS      ZEROPID
COND  2,NOTARG,<PROCESS NAME ADDRESS>,-
      <SPECIFIED>,-
      <NOT SPECIFIED>,-
      .ADDRESS      SUBJPRN
      .ADDRESS      0
COND  3,NOTARG,<PROCESS TYPE>,-
      <SELF>,-
      <SUBPROCESS>,-
      <DETACHED, DIFFERENT GROUP>,-
      <DETACHED, SAME GROUP, SAME MEMBER>,-
      <DETACHED, SAME GROUP, DIFFERENT MEMBER>,-
      .LONG          ^XXXXXXXXX ; PSEUDO-UIC
      .LONG          0           ; PSEUDO-UIC
      .BLKL          1           ; UIC
      .BLKL          1           ; UIC
      .BLKL          1           ; UIC
COND  4,NULL
COND  5,NULL
.PSECT  SATSSS40,RD,WRT,EXE
```

	0120	106
	0120	107
	0120	108
	0120	109
	0120	110
	0120	111
	0120	112
	0120	113
	0120	114
00000000'	016B	115
0000011C'	016F	116
00000110'	0173	117
	0177	118
	0177	119
	0177	120
	0177	121
	0177	122
00000051'	01AD	123
00000000'	01B1	124
	01B5	125
	01B5	126
	01B5	127
	01B5	128
	01B5	129
	01B5	130
	01B5	131
	01B5	132
FFFFFFFF	024A	133
00000000	024E	134
00000256	0252	135
0000025A	0256	136
0000025E	025A	137
	025E	138
	025E	139
	025F	140
	025F	141
	0260	142
00000000		143

```
0000 145 .SBTTL TM_SETUP, TM_CLEANUP
0000 146 :++
0000 147 : FUNCTIONAL DESCRIPTION:
0000 148 :
0000 149 :         TM SETUP AND TM CLEANUP ARE CALLED TO PERFORM
0000 150 : REQUIRED HOUSEKEEPING AT THE BEGINNING AND END, RESPECTIVELY, OF
0000 151 : TEST MODULE EXECUTION.
0000 152 :
0000 153 : CALLING SEQUENCE:
0000 154 :
0000 155 :         BSBW TM_SETUP  BSBW TM_CLEANUP
0000 156 :
0000 157 : INPUT PARAMETERS:
0000 158 :
0000 159 :         NONE
0000 160 :
0000 161 : IMPLICIT INPUTS:
0000 162 :
0000 163 :         NONE
0000 164 :
0000 165 : OUTPUT PARAMETERS:
0000 166 :
0000 167 :         NONE
0000 168 :
0000 169 : IMPLICIT OUTPUTS:
0000 170 :
0000 171 :         TM_SETUP:  COND TABLE INDEX REGISTERS (R2,3,4,5,6) CLEARED;
0000 172 :                   ALL PRIVILEGES ACQUIRED.
0000 173 :
0000 174 : COMPLETION CODES:
0000 175 :
0000 176 :         EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
0000 177 :
0000 178 : SIDE EFFECTS:
0000 179 :
0000 180 :         SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
0000 181 : (VIA RSB) IF ERROR ENCOUNTERED.
0000 182 :
0000 183 :--
0000 184 :
0000 185 :
0000 186 :
0000 187 TM_SETUP::
0000 188 CLRL  R2      ; INITIALIZE
0000 189 CLRL  R3      ; .. CONDITION
0000 190 CLRL  R4      ; .... TABLE
0000 191 CLRL  R5      ; ..... INDEX
0000 192 CLRL  R6      ; ..... REGISTERS
0000 193 BSBW  MOD_MSG_PRINT ; PRINT TEST MODULE BEGIN MSG
0000 194 MOVAL TEST_MOD_SUCC,TMD_ADDR ; ASSUME END MSG WILL SHOW SUCCESS
0000 195 INSV  #SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
0000 196
0000 197 MODE  TO,5$,KRNL ; KERNEL MODE TO ACCESS PHD
0000 198 MOVL  @#CTL$GL_PHD,R9 ; GET PROCESS HEADER ADDRESS
0000 199 MOVAL PHD$Q_PRIVMSK(R9),PRIVMASK ; GET PRIV MASK ADDRESS
0000 200 MODE  FROM,5$ ; BACK TO USER MODE
0000 201 PRIV  ADD,ALL ; GET ALL PRIVILEGES
```

52 D4 0000
53 D4 0002
54 D4 0004
55 D4 0006
56 D4 0008
FFF3' 30 000A
00000000'EF 00000000'EF DE 0000
03 00 00000000'8F FO 0018
00000000'EF 0020
59 00000000'9F DO 0025
000000C0'EF 69 DE 0048
004F 198
0056 199
0057 200

```
0077 201 $SETPRN S TEST MOD_NAME_D ; SET PROCESS NAME
0084 202 SS_CHECK NORMAL ; CHECK STATUS CODE RETURNED FROM SETPRN
00B2 203 $WAKE S SELFPIID ; GET MY PID
00C1 204 SS_CHECK NORMAL ; CHECK FOR NORMAL RETURN
00EF 205 $HIBER S ; UNDO ABOVE WAKE
00F6 206 SS_CHECK NORMAL ; CHECK FOR NORMAL RETURN
0124 207 :
0124 208 : THE FOLLOWING CODE ESTABLISHES UIC'S IN THE CONDITION 3 TABLE
0124 209 :
0124 210 :
59 00000000'9F DO 0147 211 MODE TO,20$,KRNL ; KERNEL MODE TO ACCESS PCB
59 009C C9 DO 014E 212 MOVL @#$CH$GL_CURPCB,R9 ; GET CURRENT PCB ADDRESS
0153 213 MOVL PCB$UIC(R9),R9 ; PICK UP UIC FROM PCB
0154 214 : ... AND GET BACK TO USER MODE
0154 215 :
0154 216 : R9 NOW CONTAINS 'MY' UIC
59 5A 02 9A 0154 217 MOVZBL #2,R10 ; GET COND3 TABLE INDEX NUMBER INTO A REG
00010000 8F C1 0157 218 ADDL3 #*X10000,R9,COND3_E[R10] ; PUT DIFF GROUP UIC INTO 3RD TABLE ELT
0000024A'EF4A 5A D6 0164 219 INCL R10 ; POINT TO 4TH COND3 TABLE ELEMENT
0000024A'EF4A 59 DO 0166 220 MOVL R9,COND3_E[R10] ; PUT MY UIC INTO TABLE
0000024A'EF4A 5A D6 016E 221 INCL R10 ; POINT TO 5TH COND3 TABLE ELEMENT
0000024A'EF4A 59 01 0170 222 ADDL3 #1,R9,COND3_E[R10] ; PUT DIFF MEMBER UIC INTO THE TABLE
0179 223 $CREMBX_S CHAN=MBXCHAN, LOGNAM=SUBJPRN, - ; GET MAILBOX FOR PROCESS
0179 224 MAXMSG=#120, PROMSK=#0, BUFQUO=#240
019E 225 SS_CHECK NORMAL ; CHECK NORMAL COMPLETION
01CC 226 $GETCHN_S CHAN=MBXCHAN, - ; GET CHAN INFO (UNIT NUMBER)
01CC 227 PRIBUF=MBXCHANINFO
01E6 228 SS_CHECK NORMAL ; CHECK NORMAL COMPLETION
00000088'EF 00000020'EF 3C 0214 229 MOVZWL MBXCHANINFO+8+DIB$W_UNIT,MBXUNIT ; SAVE MAILBOX UNIT NUMBER
05 021F 230 RSB ; RETURN TO MAIN ROUTINE
0220 231 TM_CLEANUP::
0220 232 $DELMBX_S MBXCHAN ; DELETE TERMINATION MAILBOX
FDCF' 30 022E 233 BSBW MOD_MSG_PRINT ; PRINT TEST MODULE END MSG
05 0231 234 RSB ; RETURN TO MAIN ROUTINE
```

```
0232 236 .SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP
0233 237
0234 238 :++
0235 239 : FUNCTIONAL DESCRIPTION:
0236 240 :
0237 241 : COND1 AND COND2 CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED
0238 242 : BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW
0239 243 : CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON
0240 244 : ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE
0241 245 : CONDITION X TABLE IS INCLUDED IN THE COND1 SUBROUTINE AND CLEANED
0242 246 : UP, IF NECESSARY, IN THE COND2 CLEANUP SUBROUTINE. THIS INCLUDES,
0243 247 : ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO
0244 248 : OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO
0245 249 : VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE
0246 250 : (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.
0247 251 :
0248 252 : CALLING SEQUENCE:
0249 253 :
0250 254 : BSBW COND1 BSBW COND2_CLEANUP
0251 255 : WHERE X = 1,2,3,4,5
0252 256 :
0253 257 : INPUT PARAMETERS:
0254 258 :
0255 259 : CONFLICT = 0
0256 260 :
0257 261 : IMPLICIT INPUTS:
0258 262 :
0259 263 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
0260 264 : FOR COND1 TABLES 1,2,3,4,5, RESPECTIVELY.
0261 265 :
0262 266 : OUTPUT PARAMETERS:
0263 267 :
0264 268 : CONFLICT SET TO NON-ZERO IF COND1 TABLE CONFLICT DETECTED.
0265 269 :
0266 270 : IMPLICIT OUTPUTS:
0267 271 :
0268 272 : R2,3,4,5,6 PRESERVED
0269 273 :
0270 274 : COMPLETION CODES:
0271 275 :
0272 276 : NONE
0273 277 :
0274 278 : SIDE EFFECTS:
0275 279 :
0276 280 : NONE
0277 281 :
0278 282 : --
0279 283 :
0280 284 :
0281 285 : COND1::
0282 286 : RSB : RETURN TO MAIN ROUTINE
0283 287 : COND1_CLEANUP::
0284 288 : RSB : RETURN TO MAIN ROUTINE
0285 289 : COND2::
0286 290 : RSB : RETURN TO MAIN ROUTINE
0287 291 : COND2_CLEANUP::
0288 292 : RSB : RETURN TO MAIN ROUTINE
```

```
0000016B'EF42 0000011C'8F D1 0236 293 COND3::
                                13 0236 294 CMPL #SUBJPID,COND1_E[R2] ; NON-ZERO PID SPECIFIED ?
                                20 0242 295 BEQLU 10$ ; YES -- PROCESS IS 'OTHER'
000001AD'EF43 D5 0244 296 TSTL COND2_E[R3] ; IS PROCESS NAME SPECIFIED ?
                                07 0248 297 BEQL 5$ ; NO -- SUBJECT PROCESS IS 'SELF'
                                54 024D 298 CMPL R4,#2 ; DOES CONDITION 3 SPECIFY DIFFERENT GROUP ?
                                20 0250 299 BEQL 20$ ; YES -- PROCESS NAME FOR DIFF GROUP IS CONF
                                10 11 0252 300 BRB 10$ ; NO -- MAKE SURE COND 3 SPECIFIES 'OTHER'
                                0254 301 5$:
                                0254 302
                                0254 303 ; PROCESS IS 'SELF'
                                0254 304
0000024A'EF44 00000000'EF D1 0254 305 CMPL ONES,COND3_E[R4] ; DOES CONDITION 3 SPECIFY 'SELF' ?
                                1B 13 0260 306 BEQLU COND3X ; YES -- THEN ALL 3 CONDIT'NS ARE CONSISTENT
                                OE 11 0262 307 BRB 20$ ; NO -- INDICATE CONFLICT & GET OUT
                                0264 308 10$:
                                0264 309
                                0264 310 ; PROCESS IS 'OTHER'
                                0264 311
0000024A'EF44 00000000'EF D1 0264 312 CMPL ONES,COND3_E[R4] ; DOES CONDITION 3 SPECIFY 'SELF' ?
                                OB 12 0270 313 BNEQU COND3X ; NO -- THEN ALL 3 CONDITIONS ARE CONSISTENT
                                0272 314 20$:
00000000'EF 00000000'EF 90 0272 315 MOVB ONES,CONFLICT ; YES -- INDICATE CONFLICT
                                027D 316 COND3X:
                                05 027D 317 RSB ; RETURN TO MAIN ROUTINE
                                027E 318 COND3_CLEANUP::
                                05 027E 319 RSB ; RETURN TO MAIN ROUTINE
                                027F 320 COND4::
                                05 027F 321 RSB ; RETURN TO MAIN ROUTINE
                                0280 322 COND4_CLEANUP::
                                05 0280 323 RSB ; RETURN TO MAIN ROUTINE
                                0281 324 COND5::
                                05 0281 325 RSB ; RETURN TO MAIN ROUTINE
                                0282 326 COND5_CLEANUP::
                                05 0282 327 RSB ; RETURN TO MAIN ROUTINE
```

```
0283 329 .SBTTL FORM_CONDS
0283 330 :++
0283 331 : FUNCTIONAL DESCRIPTION:
0283 332 :
0283 333 : FORM CONDS FORMATS AND PRINTS INFORMATION ABOUT
0283 334 : THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
0283 335 :
0283 336 : CALLING SEQUENCE:
0283 337 :
0283 338 : BSBW FORM_CONDS
0283 339 :
0283 340 : INPUT PARAMETERS:
0283 341 :
0283 342 : NONE
0283 343 :
0283 344 : IMPLICIT INPUTS:
0283 345 :
0283 346 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
0283 347 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
0283 348 : FOR X = 1,2,3,4,5 :
0283 349 : COND_X_T - TITLE TEXT FOR CONDX TABLE
0283 350 : COND_X_TAB - ELEMENT TEXT FOR CONDX TABLE
0283 351 : COND_X_C - CONTEXT OF THE CONDX TABLE
0283 352 : COND_X_E - DATA ELEMENTS OF THE CONDX TABLE
0283 353 :
0283 354 : OUTPUT PARAMETERS:
0283 355 :
0283 356 : NONE
0283 357 :
0283 358 : IMPLICIT OUTPUTS:
0283 359 :
0283 360 : NONE
0283 361 :
0283 362 : COMPLETION CODES:
0283 363 :
0283 364 : NONE
0283 365 :
0283 366 : SIDE EFFECTS:
0283 367 :
0283 368 : NONE
0283 369 :
0283 370 : --
0283 371 :
0283 372 :
0283 373 :
0283 374 FORM_CONDS::
0283 375 $FAO_S MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM
02A2 376 : FORMAT CONDITIONS HEADER MSG
02A2 377 BSBW OUTPUT_MSG : ... AND PRINT IT
14 00 91 02A5 378 CMPB #COND1_C,#NULL : IS CONDITION 1 NULL ?
03 12 02A8 379 BNEQU 10$ : NO -- CONTINUE
00BF 31 02AA 380 BRW FORM_CONDSX : YES -- SUBROUTINE IS FINISHED
02AD 381 10$:
02AD 382 MOVAL COND1_T,MSG_A : SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO
00000000'EF 00000120'EF DE 02AD 383 MOVL COND1_TAB[R2],MSG_B : SAVE ADDR OF COND 1 CURR TEXT ELT FOR FAO
00000000'EF 0000012D'EF42 D0 02B8 384 MOVB #COND1_C,MSG_TXT : SAVE CONDITION 1 CONTEXT FOR FAO
00000000'EF 00 90 02C4 384 MOV_VAL COND1_C,COND1_E[R2],MSG_DATA1 : GIVE COND 1 DATA VALUE TO FAO
02CB 385
```

```
14 FD32' 30 02CB 386 BSBW WRITE_MSG2 ; FORMAT AND WRITE CONDITION 1 MSG
00 91 02CE 387 CMPB #COND2_C,#NULL ; IS CONDITION 2 NULL ?
03 12 02D1 388 BNEQU 20$ ; NO -- CONTINUE
0096 31 02D3 389 BRW FORM_CONDSX ; YES -- SUBROUTINE IS FINISHED
02D6 390 20$:
00000000'EF 00000177'EF DE 02D6 391 MOVAL COND2_T,MSG_A ; SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO
00000000'EF 0000018D'EF43 D0 02E1 392 MOVL COND2_TAB[R3],MSG_B ; SAVE ADDR OF COND 2 CURR TEXT ELT FOR FAO
00000000'EF 00 90 02ED 393 MOVB #COND2_C,MSG_CTXT ; SAVE CONDITION 2 CONTEXT FOR FAO
02F4 394 MOV VAL COND2_C,COND2_E[R3],MSG_DATA1 ; GIVE COND 2 DATA VALUE TO FAO
14 FD09' 30 02F4 395 BSBW WRITE_MSG2 ; FORMAT AND WRITE CONDITION 2 MSG
00 91 02F7 396 CMPB #COND3_C,#NULL ; IS CONDITION 3 NULL ?
03 12 02FA 397 BNEQU 30$ ; NO -- CONTINUE
006D 31 02FC 398 BRW FORM_CONDSX ; YES -- SUBROUTINE IS FINISHED
02FF 399 30$:
00000000'EF 000001B5'EF DE 02FF 400 MOVAL COND3_T,MSG_A ; SAVE ADDRESS OF CONDITION 3 TITLE FOR FAO
00000000'EF 000001C3'EF44 D0 030A 401 MOVL COND3_TAB[R4],MSG_B ; SAVE ADDR OF COND 3 CURR TEXT ELT FOR FAO
00000000'EF 00 90 0316 402 MOVB #COND3_C,MSG_CTXT ; SAVE CONDITION 3 CONTEXT FOR FAO
031D 403 MOV VAL COND3_C,COND3_E[R4],MSG_DATA1 ; GIVE COND 3 DATA VALUE TO FAO
FC0' 30 031D 404 BSBW WRITE_MSG2 ; FORMAT AND WRITE CONDITION 3 MSG
14 14 91 0320 405 CMPB #COND4_C,#NULL ; IS CONDITION 4 NULL ?
47 13 0323 406 BEQLU FORM_CONDSX ; YES -- SUBROUTINE IS FINISHED
00000000'EF 0000025E'EF DE 0325 407 MOVAL COND4_T,MSG_A ; SAVE ADDRESS OF CONDITION 4 TITLE FOR FAO
00000000'EF 0000025E'EF45 D0 0330 408 MOVL COND4_TAB[R5],MSG_B ; SAVE ADDR OF COND 4 CURR TEXT ELT FOR FAO
00000000'EF 14 90 033C 409 MOVB #COND4_C,MSG_CTXT ; SAVE CONDITION 4 CONTEXT FOR FAO
0343 410 MOV VAL COND4_C,COND4_E[R5],MSG_DATA1 ; GIVE COND 4 DATA VALUE TO FAO
FCBA' 30 0343 411 BSBW WRITE_MSG2 ; FORMAT AND WRITE CONDITION 4 MSG
14 14 91 0346 412 CMPB #COND5_C,#NULL ; IS CONDITION 5 NULL ?
21 13 0349 413 BEQLU FORM_CONDSX ; YES -- SUBROUTINE IS FINISHED
00000000'EF 0000025F'EF DE 034B 414 MOVAL COND5_T,MSG_A ; SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
00000000'EF 0000025F'EF46 D0 0356 415 MOVL COND5_TAB[R6],MSG_B ; SAVE ADDR OF COND 5 CURR TEXT ELT FOR FAO
00000000'EF 14 90 0362 416 MOVB #COND5_C,MSG_CTXT ; SAVE CONDITION 5 CONTEXT FOR FAO
0367 417 MOV VAL COND5_C,COND5_E[R6],MSG_DATA1 ; GIVE COND 5 DATA VALUE TO FAO
FC94' 30 0367 418 BSBW WRITE_MSG2 ; FORMAT AND WRITE CONDITION 5 MSG
036C 419 FORM_CONDSX:
05 036C 420 RSB ; RETURN TO CALLER
```

```
036D 422 .SBTTL VERIFY
036D 423 ++
036D 424 FUNCTIONAL DESCRIPTION:
036D 425
036D 426 VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION
036D 427 TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR
036D 428 COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS
036D 429 SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE
036D 430 (SWAKE). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED
036D 431 BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS
036D 432 AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF
036D 433 COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN
036D 434 ERR_EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY,
036D 435 THROUGH THE SS_CHECK MACRO); ERR_EXIT SETS EFLAG TO NON-ZERO.
036D 436 PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER.
036D 437 WHEN ERR_EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED,
036D 438 AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.
036D 439
036D 440 CALLING SEQUENCE:
036D 441
036D 442 BSBW VERIFY
036D 443
036D 444 INPUT PARAMETERS:
036D 445
036D 446 NONE
036D 447
036D 448 IMPLICIT INPUTS:
036D 449
036D 450 R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
036D 451 FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
036D 452 FOR X = 1,2,3,4,5 :
036D 453 CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
036D 454 TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
036D 455 ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
036D 456 FOR CONDX_E.
036D 457
036D 458 OUTPUT PARAMETERS:
036D 459
036D 460 NONE
036D 461
036D 462 IMPLICIT OUTPUTS:
036D 463
036D 464 VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS,
036D 465 IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING
036D 466 ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA
036D 467 AN ERR_EXIT OR SS_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED
036D 468 ERRORS.
036D 469
036D 470 COMPLETION CODES:
036D 471
036D 472 EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
036D 473
036D 474 SIDE EFFECTS:
036D 475
036D 476 SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
036D 477 (VIA RSB) IF ERROR ENCOUNTERED.
036D 478
```

```
036D 479 :--
036D 480
036D 481
036D 482
036D 483
00000000'EF 95 036D 484
03 13 0373 485
FFOB 30 0375 486
0000011C'EF 00000114'EF D0 0378 487
0000024A'EF44 00000110'EF D4 0378 488
00000000'EF D1 0383 489
03 12 0389 490
0074 31 0395 491
0397 492
039A 493
039A 494
039A 495
039A 496
03D5 497
03D5 498
0000011C'EF 00000118'EF D0 0403 499
040E 500
0000010C'EF 0000016B'EF42 D0 040E 501
59 000001AD'EF43 D0 041A 502
0422 503
0422 504
0422 505
0422 506
00000000'BF 50 D1 0431 507
5F 13 0438 508
00000000'EF 00000000'BF D0 043A 509
00000000'EF 50 D0 0445 510
044C 511
0499 512
0000010C'EF D5 0499 513
66 13 049F 514
0000010C'FF 0000011C'EF D1 04A1 515
59 13 04AC 516
00000000'EF 0000011C'EF D0 04AE 517
00000000'EF 0000010C'FF D0 04B9 518
04C4 519
0507 520
0000011C'EF 00000118'EF D1 0507 521
37 13 0512 522
0514 523
051B 524
57 11 0549 525
054B 526
054B 527
054B 528
0574 529
0574 530
05A2 531
05 05A2 532
```

VERIFY::

5\$:

7\$:

10\$:

***** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE *****

18\$:

20\$:

30\$:

VERIFYX:

RSB

TSTB CFLAG : SHOULD CONDITIONS BE PRINTED ?
BEQL 5\$: NO -- CONTINUE
BSBW FORM_CONDS : YES -- FMT & PRINT ALL CONDS FOR THIS T.C.

MOVL SELFPIID,SUBJPID : ASSUME THE SUBJECT PID IS SELF
CLRL ZEROPID : CLEAR ZERO PID
CMPL ONES,COND3_E[R4] : IS PROCESS FOR THIS TEST CASE SELF ?
BNEQU 7\$: NO -- CONTINUE
BRW 10\$: YES -- DON'T CREATE A PROCESS

SCREPRC_S PIDADR=CREPID, PRCNAM=SUBJPRN, -
UIC=COND3_E[R4], IMAGE=IMAGNAM, -
QUOTA=QUOTALIST,MBXUNT=MBXUNIT
: CREATE THE SUBJECT PROCESS
: ... AND MAKE SURE IT CREATED OK
: MAKE THE SUBJECT PID = THE ONE JUST CREATED

SS CHECK NORMAL
MOVL CREPID,SUBJPID : GET PID ADDRESS OUT OF TABLE
MOVL COND1_E[P2],DEST_PIDADR : PRCNAM ADDR INTO REG FOR INDIRECT REF'RNCE
MOVL COND2_E[R3],R9

\$WAKE_S PIDADR=@DEST_PIDADR, PRCNAM=(R9)
CMPL R0,\$SS\$_NORMAL : CODE RECEIVED = CODE EXPECTED ?
BEQLU 18\$: YES -- CONTINUE
MOVL \$SS\$_NORMAL,EXPV : NO -- LOAD UP EXPECTED AND
MOVL R0,RCV : ... RECEIVED VALUES, THEN EXIT
ERR_EXIT LONG,<INCORRECT STATUS CODE RETURNED FROM WAKE>

TSTL DEST_PIDADR : PID RETURNED BY WAKE ?
BEQL 20\$: NO -- KEEP GOING
CMPL SUBJPID,@DEST_PIDADR : YES -- IS IT THE CORRECT ONE ?
BEQL 20\$: YES -- CONTINUE
MOVL SUBJPID,EXPV : NO --LOAD UP EXPECTED AND
MOVL @DEST_PIDADR,RCV : ... RECEIVED VALUES, THEN EXIT
ERR_EXIT LONG,<INCORRECT PID RETURNED BY WAKE>

CMPL CREPID,SUBJPID : WAS A PROCESS CREATED ?
BEQLU 30\$: YES -- GO WAIT FOR IT TO COMPLETE
\$HIBER_S : NO -- OFFSET SUBJECT WAKE WITH HIBER
SS CHECK NORMAL : CHECK FOR NORMAL RETURN
BRB VERIFYX : ... AND GO EXIT

\$QIOW_S CHAN=MBXCHAN, FUNC=#IOS READVBLK, -
P1=MBXBUFF+8, P2=MBXBUFF
: WAIT FOR CREATED PROCESS TO SEND MAIL
: CHECK FOR NORMAL STATUS CODE

SS_CHECK NORMAL
VERIFYX:
RSB : RETURN TO CALLER

```
05A3 534 .SBTTL VFY_CLEANUP
05A3 535 :++
05A3 536 : FUNCTIONAL DESCRIPTION:
05A3 537 :
05A3 538 : VFY_CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE
05A3 539 : EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY_CLEANUP MUST
05A3 540 : ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN
05A3 541 : ERROR IS FOUND). ALSO, VFY_CLEANUP MAY ISSUE SS CHECK OR ERR_EXIT
05A3 542 : ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED
05A3 543 : IN THE EVENT THAT VFY_CLEANUP IS CALLED DURING ERROR PROCESSING,
05A3 544 : WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN
05A3 545 : POSSIBLY DISCOVERING A SECOND ERROR.
05A3 546 :
05A3 547 : CALLING SEQUENCE:
05A3 548 :
05A3 549 : BSBW VFY_CLEANUP
05A3 550 :
05A3 551 : INPUT PARAMETERS:
05A3 552 :
05A3 553 : NONE
05A3 554 :
05A3 555 : IMPLICIT INPUTS:
05A3 556 :
05A3 557 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
05A3 558 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
05A3 559 : FOR X = 1,2,3,4,5 :
05A3 560 : CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
05A3 561 : TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
05A3 562 : ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
05A3 563 : FOR CONDX_E.
05A3 564 :
05A3 565 : OUTPUT PARAMETERS:
05A3 566 :
05A3 567 : NONE
05A3 568 :
05A3 569 : IMPLICIT OUTPUTS:
05A3 570 :
05A3 571 : NONE
05A3 572 :
05A3 573 : COMPLETION CODES:
05A3 574 :
05A3 575 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
05A3 576 :
05A3 577 : SIDE EFFECTS:
05A3 578 :
05A3 579 : SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
05A3 580 : (VIA RSB) IF ERROR ENCOUNTERED.
05A3 581 :
05A3 582 : --
05A3 583 :
05A3 584 :
05A3 585 :
05A3 586 VFY_CLEANUP::
05A3 587 CMPL CREPID,SUBJPID : WAS A PROCESS CREATED FOR THIS TEST CASE ?
05AE 588 BNEQU VFY_CLEANUPX : NO -- JUST EXIT
05B0 589 $DELPIC,S SUBJPID : YES -- DELETE IT
05BF 590 VFY_CLEANUPX:
```

0000011C'EF 00000118'EF D1
OF 12

SATSSS40
V04-000

SATS SYSTEM SERVICE TESTS SWAKE (SUCC S 16-SEP-1984 00:53:00 VAX/VMS Macro V04-00
VFY_CLEANUP 5-SEP-1984 04:31:09 [UETPSY.SRC]SATSSS40.MAR;1

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05 05BF 591
05C0 592

RSB
.END

; RETURN TO CALLER

SA
VO

SATSSS40
Symbol table

SATS SYSTEM SERVICE TESTS \$WAKE H 2
(SUCC S 16-SEP-1984 00:53:00 VAX/VMS Macro V04-00
5-SEP-1984 04:31:09 [UETPSY.SRC]SATSSS40.MAR;1

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```

SSSS = 000004CE R 04
SSSCHARS = 0000001E
SSSCHARS1 = 00000004
SSSCHARS2 = 0000000A
SSSCHARS3 = 00000019
SSSCHARS4 = 00000021
SSSCHARS5 = 00000026
SSSCOND_A = 00000004
SSSTRINGS = 00000001
SSSTRINGS2 = 00000005
SST1 = 00000001
SST2 = 0000C004
BYTE = 00000001 G
CFLAG = ***** X 04
CHMRTN = ***** X 04
CHM_CONT = ***** X 04
COMP_SC = ***** X 04
COND1 = 00000232 RG 04
COND1_C = 00000000
COND1_CLEANUP = 00000233 RG 04
COND1_E = 0000016B R 03
COND1_H = 0000012C RG 03
COND1_T = 00000120 R 03
COND1_TAB = 0000012D R 03
COND2 = 00000234 RG 04
COND2_C = 00000000
COND2_CLEANUP = 00000235 RG 04
COND2_E = 000001AD R 03
COND2_H = 0000018C RG 03
COND2_T = 00000177 R 03
COND2_TAB = 0000018D R 03
COND3 = 00000236 RG 04
COND3X = 0000027D R 04
COND3_C = 00000000
COND3_CLEANUP = 0000027E RG 04
COND3_E = 0000024A R 03
COND3_H = 000001C2 RG 03
COND3_T = 000001B5 R 03
COND3_TAB = 000001C3 R 03
COND4 = 0000027F RG 04
COND4_C = 00000014
COND4_CLEANUP = 00000280 RG 04
COND4_H = 0000025E RG 03
COND4_T = 0000025E R 03
COND4_TAB = 0000025E R 03
COND5 = 00000281 RG 04
COND5_C = 00000014
COND5_CLEANUP = 00000282 RG 04
COND5_H = 0000025F RG 03
COND5_T = 0000025F R 03
COND5_TAB = 0000025F R 03
CONFLICT = ***** X 04
CREPID = 00000118 R 03
CTL$GL_PHD = ***** X 04
DESC = 00000010 G
DEST_PIDADR = 0000010C R 03
DIB$R_LENGTH = 00000074

```

```

DIB$W_UNIT = 0000000C
EFLAG = ***** X 04
EXPV = ***** X 04
FAO_DESC = ***** X 04
FAO_LEN = ***** X 04
FORM_CONDS = 00000283 RG 04
FORM_CONDSX = 0000036C R 04
IMAGNAM = 00000065 R 02
IOS_READVBLK = ***** X 04
LONG = 00000004 G
MBXBUF = 0000008C R 03
MBXCHAN = 00000008 R 03
MBXCHANINFO = 0000000C R 03
MBXUNIT = 00000C88 R 03
MOD_MSG_CODE = ***** X 04
MOD_MSG_PRINT = ***** X 04
MSGT_INP_CTL = 00000019 R 02
MSG3_ERR_CTL = 00000039 RG 02
MSG_A = ***** X 04
MSG_B = ***** X 04
MSG_CTXT = ***** X 04
NOTARG = 00000000 G
NULL = 00000014 G
ONES = ***** X 04
OUTPUT_MSG = ***** X 04
PCBSL_OIC = 000000BC
PCV = ***** X 04
PHD$Q_PRIVMSK = 00000000
PQL$_BYTLM = 00000003
PQL$_CPULM = 00000004
PQL$_FILLM = 00000006
PQL$_LISTEND = 00000000
PQL$_PGFLQUOTA = 00000007
PQL$_PRCLM = 00000008
PQL$_TQELM = 00000009
PRIVMASK = 00000000 R 03
PRIV_ARGS = 00000002
PROCESS_ERR = ***** X 04
QUAD = 00000008 G
QUOTALIST = 00000084 R 02
RCV = ***** X 04
REST_REGS = ***** X 04
SAVE_REGS = ***** X 04
SCH$GL_CURPCB = ***** X 04
SELFPIB = 00000114 R 03
SS$ NORMAL = ***** X 04
SUBJPID = 0000011C R 03
SUBJPRN = 00000051 R 02
SUCCESS = ***** X 04
SYSSCMKRNL = ***** GX 04
SYSSCREMBX = ***** GX 04
SYSSCREPRC = ***** GX 04
SYSSDELMBX = ***** GX 04
SYSSDELPKC = ***** GX 04
SYSSFAO = ***** X 04
SYSSGETCHN = ***** GX 04
SYSSHIBER = ***** GX 04

```

SATSSS40
Symbol table

SATS SYSTEM SERVICE TESTS \$WAKE (SUCC S 16-SEP-1984 00:53:00 VAX/VMS Macro V04-00
5-SEP-1984 04:31:09 [UETPSY.SRC]SATSSS40.MAR;1

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SYSSQIOW	*****	GX	04
SYSSSETPRN	*****	GX	04
SYSSSETPRV	*****	GX	04
SYSSWAKE	*****	GX	04
TESTNUM	*****	X	04
TEST_MOD_NAME	00000000	RG	02
TEST_MOD_NAME_D	00000009	R	02
TEST_MOD_SUCC	*****	X	04
TMD_ADDR	*****	X	04
TM_CLEANUP	00000220	RG	04
TM_SETUP	00000000	RG	04
VERIFY	00000360	RG	04
VERIFYX	000005A2	R	04
VFY_CLEANUP	000005A3	RG	04
VFY_CLEANUPX	000005BF	R	04
WORD	= 00000002	G	
WRITE MSG2	*****	X	04
ZEROPID	00000110	R	03

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$ABSS	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
RODATA	000000A7 (167.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	00000260 (608.)	03 (3.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
SATSSS40	000005C0 (1472.)	04 (4.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.06	00:00:00.33
Command processing	107	00:00:00.68	00:00:02.45
Pass 1	295	00:00:08.90	00:00:15.63
Symbol table sort	0	00:00:00.75	00:00:00.83
Pass 2	128	00:00:02.15	00:00:02.76
Symbol table output	17	00:00:00.12	00:00:00.14
Psect synopsis output	2	00:00:00.03	00:00:00.04
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	580	00:00:12.70	00:00:22.18

The working set limit was 1350 pages.
46712 bytes (92 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 487 non-local and 44 local symbols.
592 source lines were read in Pass 1, producing 24 object records in Pass 2.
46 pages of virtual memory were used to define 36 macros.

! Macro library statistics !

Macro library name	Macros defined
\$255\$DUA28:[SHRLIB]UETP.MLB;1	9
\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	2
\$255\$DUA28:[SYSLIB]STARLET.MLB;2	22
TOTALS (all libraries)	33

884 GETS were required to define 33 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:SATSSS40/OBJ=OBJ\$:SATSSS40 MSRC\$:SATSSS40/UPDATE=(ENH\$:SATSSS40)+EXECMLS/LIB+SHRLIB\$:UETP/LIB

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